

Listing of Claims

1. (currently amended) A projection type display unit, comprising,
at least one LCOS imager comprising an array of pixels individually controllable in accordance with a video signal to form an image by passing red, green and blue light through said pixels;
at least one red, at least one green, and at least one blue resonant microcavity cathode-ray tube optically coupled to said LCOS imager and emitting, respectively, said red, said green and said blue light, to produce said image; and
a projector lens optically coupled to said LCOS imager for magnifying and focusing said image for projection on a screen.
2. (cancelled)
3. (currently amended) The projection display unit according to claim 1 wherein three said LCOS imagers are provided, and
each of said microcavity cathode-ray tube being CRT devices coupled to a corresponding respective one of said LCOS imagers to produce three distinct color images.
4. (cancelled)
5. (currently amended) The projection display unit according to claim 3 further comprising
an optical combiner, said optical combiner merging each of said distinct color images to form a single composite image,
at least one electron emitter in the resonant microcavity cathode-ray tubes,
and,
electron beams from the electron emitters, the electron beams being diffuse
such that the resonant microcavity cathode-ray tubes do not form an image directly.

Serial No. 10/047,239

PU020018

6-8. (cancelled)

9. (currently amended) A method for displaying an image, comprising,
providing three CRT resonant microcavities configured for emitting red, green
and blue color light, respectively;
projecting said color red, green and blue light through cells of an LCOS imager,
each cell comprising a pixels of ~~an~~ said image, each pixel individually controllable by
video signal, thereby producing ~~an~~ said image; and
magnifying and focusing said image through a lens for projection on a screen.

10. (currently amended) The method according to claim 9 further comprising ~~the steps~~
~~of:~~

providing three LCOS imagers, one for each said color light, each imager
producing a distinct color image; and
optically combining said distinct color images from at least two said LCOS
imagers to form said image image produced with said light of said selected color
with at least one other image of a second selected color distinct from said first
selected color.

11. (cancelled)